

SEQUENCE LISTING

<110> Robbins, Jeffrey
Children's Hospital Medical Center

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Transgenic Rabbits

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gtc atc cag tac ttt gcc agt att gca gcc att ggt gac cg ^g ggc aag		627	
Val Ile Gln Tyr Phe Ala Ser Ile Ala Ala Ile Gly Asp Arg Gly Lys			
195	200	205	
aag gac aac gtc aat gcc aac aag ggc acc ctg gag gac cag atc atc		675	
Lys Asp Asn Val Asn Ala Asn Lys Gly Thr Leu Glu Asp Gln Ile Ile			
210	215	220	
cag gcc aac cct gcc ttg gag gcc ttc ggc aac gcc aag acc gtc cg ^g		723	
Gln Ala Asn Pro Ala Leu Glu Ala Phe Gly Asn Ala Lys Thr Val Arg			
225	230	235	
aac gac aac tcc tcg cgc ttc ggg aaa ttc atc aga atc cac ttt gga		771	
Asn Asp Asn Ser Ser Arg Phe Gly Lys Phe Ile Arg Ile His Phe Gly			
240	245	250	
gcc act gga aag ctg gct tct gcg gac ata gag acc tac ctg ctg gag		819	
Ala Thr Gly Lys Leu Ala Ser Ala Asp Ile Glu Thr Tyr Leu Leu Glu			
255	260	265	270
aag tcc cgg gtg atc ttc cag ctg aag gct gag agg aac tac cac atc		867	
Lys Ser Arg Val Ile Phe Gln Leu Lys Ala Glu Arg Asn Tyr His Ile			
275	280	285	
ttc tac cag atc ctg tcc aac aag aag ccg gag ctg ctg gac atg ctg		915	
Phe Tyr Gln Ile Leu Ser Asn Lys Lys Pro Glu Leu Leu Asp Met Leu			
290	295	300	
ctg atc aca aac aac ccc tac gac tac gcc ttc gtg tcc cag gga gag		963	
Leu Ile Thr Asn Asn Pro Tyr Asp Tyr Ala Phe Val Ser Gln Gly Glu			
305	310	315	
gtg tcc gtg gcc tcc atc gac gac tcc gag gag ctc atg gcc acc gat		1011	
Val Ser Val Ala Ser Ile Asp Asp Ser Glu Glu Leu Met Ala Thr Asp			
320	325	330	
aac gcc ttc gac gtg ctg ggc ttc agt tct gag gag aaa gtc ggc atc		1059	
Asn Ala Phe Asp Val Leu Gly Phe Ser Ser Glu Glu Lys Val Gly Ile			
335	340	345	350
tac aag ctg acg ggc gcc atc atg cac tac gga aac atg aag ttc aag		1107	
Tyr Lys Leu Thr Gly Ala Ile Met His Tyr Gly Asn Met Lys Phe Lys			
355	360	365	
cag aag cag cgt gag gag cag gcg gag ccg gac ggc acc gaa gat gcc		1155	

Gln	Lys	Gln	Arg	Glu	Glu	Gln	Ala	Glu	Pro	Asp	Gly	Thr	Glu	Asp	Ala	
370								375						380		
gac aag tcc gcc tac ctc atg ggg ctg aac tcc gct gac ctg ctc aag																1203
Asp	Lys	Ser	Ala	Tyr	Leu	Met	Gly	Leu	Asn	Ser	Ala	Asp	Leu	Leu	Lys	
385					390				395							
ggg ctg tgc cac cct cgg gtg aaa gtg ggc aac gag tac gtc acc aag																1251
Gly	Leu	Cys	His	Pro	Arg	Val	Lys	Val	Gly	Asn	Glu	Tyr	Val	Thr	Lys	
400					405				410							
ggg cag aac gtg cag cag gtg tac tac tcc atc ggg gcg ctg gcc aag																1299
Gly	Gln	Asn	Val	Gln	Gln	Val	Tyr	Tyr	Ser	Ile	Gly	Ala	Leu	Ala	Lys	
415				420					425				430			
gcc gtg tac gag aag atg ttc aac tgg atg gtg atg cgc atc aat gcc																1347
Ala	Val	Tyr	Glu	Lys	Met	Phe	Asn	Trp	Met	Val	Met	Arg	Ile	Asn	Ala	
435					440				445							
acg ctg gag acc aag ctg ccg cgc cag tac ttc ata ggc gtc ctc gac																1395
Thr	Leu	Glu	Thr	Lys	Leu	Pro	Arg	Gln	Tyr	Phe	Ile	Gly	Val	Leu	Asp	
450					455				460							
atc gcg ggc ttc gag atc ttt gac ttc aac agc ttt gag cag ctt tgc																1443
Ile	Ala	Gly	Phe	Glu	Ile	Phe	Asp	Phe	Asn	Ser	Phe	Glu	Gln	Leu	Cys	
465				470					475							
atc aac ttc acc aac gag aag ctg cag cag ttc ttc aac cac cac atg																1491
Ile	Asn	Phe	Thr	Asn	Glu	Lys	Leu	Gln	Gln	Phe	Phe	Asn	His	His	Met	
480					485				490							
ttc gtg ctg gag cag gag tac aag aag gag ggc atc gag tgg gag																1539
Phe	Val	Leu	Glu	Gln	Glu	Glu	Tyr	Lys	Lys	Glu	Gly	Ile	Glu	Trp	Glu	
495				500					505				510			
ttc atc gac ttc ggc atg gac ctg cag gcc tgc atc gac ctc att gag																1587
Phe	Ile	Asp	Phe	Gly	Met	Asp	Leu	Gln	Ala	Cys	Ile	Asp	Leu	Ile	Glu	
515					520				525							
aag ccc atg ggc atc atg tcc atc ctg gag gag gag tgc atg ttc ccc																1635
Lys	Pro	Met	Gly	Ile	Met	Ser	Ile	Leu	Glu	Glu	Glu	Cys	Met	Phe	Pro	
530					535				540							
aag gcc acc gac atg acc ttc aag gcc aag cta tac gac aac cac ctg																1683
Lys	Ala	Thr	Asp	Met	Thr	Phe	Lys	Ala	Lys	Leu	Tyr	Asp	Asn	His	Leu	
545					550				555							
ggc aag tcc aac aac ttc cag aag cca cgc aac gtc aag ggg aag cag																1731
Gly	Lys	Ser	Asn	Asn	Phe	Gln	Lys	Pro	Arg	Asn	Val	Lys	Gly	Lys	Gln	
560					565				570							
gaa gcc cac ttc tcc ctg gtc cac tac gcc ggc acc gtg gac tac aac																1779
Glu	Ala	His	Phe	Ser	Leu	Val	His	Tyr	Ala	Gly	Thr	Val	Asp	Tyr	Asn	
575					580				585				590			
atc ctg ggc tgg ctg gag aag aac aag gac cct ctc aac gag acg gtg																1827
Ile	Leu	Gly	Trp	Leu	Glu	Lys	Asn	Asp	Pro	Leu	Asn	Glu	Thr	Val		

595	600	605	
gtg ggc ctg tac cag aag tcc tcc ctc aag ctg atg gcc acc ctc ttc Val Gly Leu Tyr Gln Lys Ser Ser Leu Lys Leu Met Ala Thr Leu Phe			1875
610	615	620	
gcc acc tat gct tct gcc gac act gcg gac act ggc aaa ggc aaa gga Ala Thr Tyr Ala Ser Ala Asp Thr Ala Asp Thr Gly Lys Gly Lys Gly			1923
625	630	635	
ggc aag aaa aag ggc tcg tcc ttc cag aca gtg tca gct ctc cac cgg Gly Lys Lys Lys Gly Ser Ser Phe Gln Thr Val Ser Ala Leu His Arg			1971
640	645	650	
gaa aat ctg aac aag ctg atg acc aac ctg agg acc acc cac cct cac Glu Asn Leu Asn Lys Leu Met Thr Asn Leu Arg Thr Thr His Pro His			2019
655	660	665	670
ttc gtg cgc tgc atc atc ccc aat gag cg ^g aag gct cca ggg gtg atg Phe Val Arg Cys Ile Ile Pro Asn Glu Arg Lys Ala Pro Gly Val Met			2067
675	680	685	
gac aac ccc ctg gtc atg cac cag ctg cgt tgc aac ggc gtg ctg gaa Asp Asn Pro Leu Val Met His Gln Leu Arg Cys Asn Gly Val Leu Glu			2115
690	695	700	
ggc att cgc atc tgc agg aag ggc ttc ccc aac cgc atc ctc tac ggg Gly Ile Arg Ile Cys Arg Lys Gly Phe Pro Asn Arg Ile Leu Tyr Gly			2163
705	710	715	
gac ttc cgg cag agg tac cgc atc ctg aac cca gc ^g gcc atc cct gag Asp Phe Arg Gln Arg Tyr Arg Ile Leu Asn Pro Ala Ala Ile Pro Glu			2211
720	725	730	
ggc cag ttc att gac agc agg aag ggg qc ^g gag aag ctg ctg ggc tcc Gly Gln Phe Ile Asp Ser Arg Lys Gly Ala Glu Lys Leu Leu Gly Ser			2259
735	740	745	750
ctg gac att gac cac aac cag tac aag ttc ggc cac acc aag gtg ttc Leu Asp Ile Asp His Asn Gln Tyr Lys Phe Gly His Thr Lys Val Phe			2307
755	760	765	
ttc aag gcc ggg ctg ctg ggg ctg gag gag atg cgg gac gag agg Phe Lys Ala Gly Leu Leu Gly Leu Leu Glu Glu Met Arg Asp Glu Arg			2355
770	775	780	
ctg agc cgc atc atc acg cgc atc cag gcc cag tcc cgg ggc cag ctc Leu Ser Arg Ile Ile Thr Arg Ile Gln Ala Gln Ser Arg Gly Gln Leu			2403
785	790	795	
atg cgt gct gag ttc aag aag atc ctg gag cgc agg gat gcc ctg ctg Met Arg Ala Glu Phe Lys Lys Ile Leu Glu Arg Arg Asp Ala Leu Leu			2451
800	805	810	
gtc atc cag tgg aac atc cgg gcc ttc atg ggg gtc aag aac tgg ccc Val Ile Gln Trp Asn Ile Arg Ala Phe Met Gly Val Lys Asn Trp Pro			2499
815	820	825	830

tgg atg aag ctc tac ttc aag atc aag cct ctg ctg aag agc gcg gag		2547
Trp Met Lys Leu Tyr Phe Lys Ile Lys Pro Leu Leu Lys Ser Ala Glu		
835	840	845
acg gag aag gag atg gcc acc atg aag gag gag ttc ggg cgc atc aaa		2595
Thr Glu Lys Glu Met Ala Thr Met Lys Glu Glu Phe Gly Arg Ile Lys		
850	855	860
gag tcc ctg gag aag tcg gag gcc cgc cgc aag gag ctg gag gag aag		2643
Glu Ser Leu Glu Lys Ser Glu Ala Arg Arg Lys Glu Leu Glu Glu Lys		
865	870	875
atg gtg tcg ctg ctg cag gag aag aat gac ctg cag ctc caa gtg cag		2691
Met Val Ser Leu Leu Gln Glu Lys Asn Asp Leu Gln Leu Gln Val Gln		
880	885	890
gcg gaa caa gac aac ctc aat gat gcc gag gag cgc tgc gac cag ctg		2739
Ala Glu Gln Asp Asn Leu Asn Asp Ala Glu Glu Arg Cys Asp Gln Leu		
895	900	905
910		
atc aag aac aag atc cag ctg gag gcc aag gtg aag gag atg aac gag		2787
Ile Lys Asn Lys Ile Gln Leu Glu Ala Lys Val Lys Glu Met Asn Glu		
915	920	925
agg ctg gag gac gag gag gag atg aac gcc gag ctc act gcc aag aag		2835
Arg Leu Glu Asp Glu Glu Met Asn Ala Glu Leu Thr Ala Lys Lys		
930	935	940
cgc aag ctg gaa gac gag tgc tcc gag ctc aag aag gac att gac gac		2883
Arg Lys Leu Glu Asp Glu Cys Ser Glu Leu Lys Lys Asp Ile Asp Asp		
945	950	955
ctg gag ctg acg ctg gcc aag gtg gag aag gag aag cac gca acc gag		2931
Leu Glu Leu Thr Leu Ala Lys Val Glu Lys Glu Lys His Ala Thr Glu		
960	965	970
aac aag gtg aag aac ctg aca gag gag atg gct ggg ctg gac gag atc		2979
Asn Lys Val Lys Asn Leu Thr Glu Glu Met Ala Gly Leu Asp Glu Ile		
975	980	985
990		
atc gcc aag ctc acc aag gag aag aaa gct ctg caa gag gcc cac cag		3027
Ile Ala Lys Leu Thr Lys Glu Lys Ala Leu Gln Glu Ala His Gln		
995	1000	1005
cag gcc cta gat gac ctt cag gct gag gag gac aaa gtc aat act ctg		3075
Gln Ala Leu Asp Asp Leu Gln Ala Glu Glu Asp Lys Val Asn Thr Leu		
1010	1015	1020
acc aag gcc aag ctc aag ctg gag cag cag gtg gac gat ctg gag gga		3123
Thr Lys Ala Lys Leu Lys Leu Glu Gln Gln Val Asp Asp Leu Glu Gly		
1025	1030	1035
tcc ctg gag cag gag aag aag gtg cgc atg gac ctg gag cga gcc aag		3171
Ser Leu Glu Gln Glu Lys Lys Val Arg Met Asp Leu Glu Arg Ala Lys		
1040	1045	1050

cg	aag	ctg	gag	gg	t	gac	ctg	aag	ctg	acc	cag	gag	agc	atc	atg	gac	3219
Arg	Lys	Leu	Glu	Gly	Asp	Leu	Lys	Leu	Thr	Gln	Glu	Ser	Ile	Met	Asp		
1055		1060							1065						1070		
ctg	gag	aat	gac	aag	ctg	cag	ctg	gag	gag	agg	ctc	aag	aag	gag		3267	
Leu	Glu	Asn	Asp	Lys	Leu	Gln	Leu	Glu	Glu	Arg	Leu	Lys	Lys	Glu			
				1075				1080				1085					
ttt	gac	atc	agt	cag	ctg	aac	agc	aag	atc	gag	gat	gag	cag	gca	ctg	3315	
Phe	Asp	Ile	Ser	Gln	Leu	Asn	Ser	Lys	Ile	Glu	Asp	Glu	Gln	Ala	Leu		
		1090						1095				1100					
gcc	ctc	cag	ctg	cag	aag	aag	ctg	aag	gaa	aac	cag	gcc	cgc	atc	gag	3363	
Ala	Leu	Gln	Leu	Gln	Lys	Lys	Leu	Lys	Glu	Asn	Gln	Ala	Arg	Ile	Glu		
		1105					1110				1115						
gag	ctg	gag	gag	gag	ctg	gag	gcc	gag	cgc	act	gcc	agg	gcc	aag	gtg	3411	
Glu	Leu	Glu	Glu	Glu	Leu	Glu	Ala	Glu	Arg	Thr	Ala	Arg	Ala	Lys	Val		
	1120		1125				1130										
gag	aag	ctg	cgc	tcc	gac	ctg	tcc	cgg	gag	ctg	gag	gag	atc	agc	gag	3459	
Glu	Lys	Leu	Arg	Ser	Asp	Leu	Ser	Arg	Glu	Leu	Glu	Ile	Ser	Glu			
	1135		1140				1145				1150						
cg	ctg	gag	gag	gcc	ggc	ggg	gcc	acg	tcc	gtg	cag	att	gag	atg	aac	3507	
Arg	Leu	Glu	Glu	Ala	Gly	Gly	Ala	Thr	Ser	Val	Gln	Ile	Glu	Met	Asn		
		1155					1160				1165						
aag	aag	cgc	gag	gcc	gag	ttc	cag	aag	atg	cga	cgg	gac	ctg	gag	gag	3555	
Lys	Lys	Arg	Glu	Ala	Glu	Phe	Gln	Lys	Met	Arg	Arg	Asp	Leu	Glu	Glu		
	1170		1175				1180										
gcc	acg	ctg	caa	cac	gag	gcc	acg	gcc	gcc	ctg	cgc	aag	aag	cac		3603	
Ala	Thr	Leu	Gln	His	Glu	Ala	Thr	Ala	Ala	Ala	Leu	Arg	Lys	Lys	His		
	1185		1190				1195										
g	cg	gac	agc	gt	g	cc	g	ag	ct	g	c	at	g	c	gg	3651	
Ala	Asp	Ser	Val	Ala	Glu	Leu	Gly	Glu	Gln	Ile	Asp	Asn	Leu	Gln	Arg		
	1200		1205				1210										
gt	tg	a	ag	c	tg	g	a	ag	g	tg	a	ag	ct	g	tg	3699	
Val	Lys	Gln	Lys	Leu	Glu	Lys	Glu	Lys	Ser	Glu	Phe	Lys	Leu	Glu	Leu		
	1215		1220				1225				1230						
gat	gac	gtc	acc	tcc	aac	atg	gag	cag	atc	atc	aag	gcc	aag	gca	aac	3747	
Asp	Asp	Val	Thr	Ser	Asn	Met	Glu	Gln	Ile	Ile	Lys	Ala	Lys	Ala	Asn		
	1235		1240				1245										
ctg	gag	aaa	gt	tcc	cgc	ac	ctg	gaa	gac	cag	gcc	aac	gag	tac	cgc	3795	
Leu	Glu	Lys	Val	Ser	Arg	Thr	Leu	Glu	Asp	Gln	Ala	Asn	Glu	Tyr	Arg		
	1250		1255				1260										
atg	a	ag	c	tg	g	a	ag	g	tc	ac	ac	cc	c	ag		3843	
Met	Lys	Leu	Glu	Glu	Ala	Gln	Arg	Ser	Leu	Asn	Asp	Phe	Thr	Thr	Gln		
	1265		1270				1275										
cga	gcc	aag	ctg	caa	acc	gag	aac	gga	gag	cta	gcc	cgg	cag	ctg	gag	3891	

Arg Ala Lys Leu Gln Thr Glu Asn Gly Glu Leu Ala Arg Gln Leu Glu			
1280	1285	1290	
gag aag gag gcg ctg atc tcc cag ctg acc cgg ggc aag ctg tcc tac 3939			
Glu Lys Glu Ala Leu Ile Ser Gln Leu Thr Arg Gly Lys Leu Ser Tyr			
1295	1300	1305	1310
acc cag cag atg gag gac ctc aag agg cag ctg gag gag gaa ggc aag 3987			
Thr Gln Gln Met Glu Asp Leu Lys Arg Gln Leu Glu Glu Gly Lys			
1315	1320	1325	
gcc aag aac gcc ctg gcc cac gcg ctg cag tcg gcc cgc cat gac tgt 4035			
Ala Lys Asn Ala Leu Ala His Ala Leu Gln Ser Ala Arg His Asp Cys			
1330	1335	1340	
gac ctg ctg cgg gag cag tac gag gag atg gag gcc aag gcg gag 4083			
Asp Leu Leu Arg Glu Gln Tyr Glu Glu Glu Met Glu Ala Lys Ala Glu			
1345	1350	1355	
ctg cag cgc gtc ctg tcc aag gcc aac tcg gag gtg gca cag tgg agg 4131			
Leu Gln Arg Val Leu Ser Lys Ala Asn Ser Glu Val Ala Gln Trp Arg			
1360	1365	1370	
acc aaa tat gag acg gac gcc atc cag cgc acc gag gag ctg gag gag 4179			
Thr Lys Tyr Glu Thr Asp Ala Ile Gln Arg Thr Glu Glu Leu Glu Glu			
1375	1380	1385	1390
gcc aag aag aag ctg gcc cag cgg ctg cag gac gcc gag gag gcc gtg 4227			
Ala Lys Lys Lys Leu Ala Gln Arg Leu Gln Asp Ala Glu Glu Ala Val			
1395	1400	1405	
gag gcc gtc aac gcc aag tgc tcc tca ctg gag aag acc aag cac cgg 4275			
Glu Ala Val Asn Ala Lys Cys Ser Ser Leu Glu Lys Thr Lys His Arg			
1410	1415	1420	
ctg cag aac gag atc gag gac ctc atg gtg gac gtg gag cgc tcc aac 4323			
Leu Gln Asn Glu Ile Glu Asp Leu Met Val Asp Val Glu Arg Ser Asn			
1425	1430	1435	
gct gcc gcc gcc ctg gac aag aag cag agg aac ttc gac aag atc 4371			
Ala Ala Ala Ala Leu Asp Lys Lys Gln Arg Asn Phe Asp Lys Ile			
1440	1445	1450	
ctg gcc gag tgg aag cag aag tac gag gag tcg cag tcg gag ctg gag 4419			
Leu Ala Glu Trp Lys Gln Lys Tyr Glu Glu Ser Gln Ser Glu Leu Glu			
1455	1460	1465	1470
tcc tcg cag aag gag gcg cgc tcc ctc agc acc gag ctc ttc aag ctc 4467			
Ser Ser Gln Lys Glu Ala Arg Ser Leu Ser Thr Glu Leu Phe Lys Leu			
1475	1480	1485	
aag aac gcc tac gag gag tcc ctg gag cac ctg gag acc ttc aag cgg 4515			
Lys Asn Ala Tyr Glu Glu Ser Leu Glu His Leu Glu Thr Phe Lys Arg			
1490	1495	1500	
gag aac aag aac ctg cag gag gag atc tct gac ctg acg gag cag ctg 4563			
Glu Asn Lys Asn Leu Gln Glu Glu Ile Ser Asp Leu Thr Glu Gln Leu			

1505	1510	1515	
gga gaa gga ggc aag aat ctg cac gag ctg gag aag gtc cgc aag cag Gly Glu Gly Gly Lys Asn Leu His Glu Leu Glu Lys Val Arg Lys Gln 1520	1525	1530	4611
ctg gag gcc gag aag ctg gag ctg cag tcg gcc ctg gag gag gcc gag Leu Glu Ala Glu Lys Leu Glu Leu Gln Ser Ala Leu Glu Glu Ala Glu 1535	1540	1545	4659
gcc tcc ctg gag cac gag gaa ggc aag atc ctc cgg gcc cag ctg gag Ala Ser Leu Glu His Glu Gly Lys Ile Leu Arg Ala Gln Leu Glu 1555	1560	1565	4707
ttc aac cag atc aag gcg gag atc gag cgg aag ctg gtg gag aag gac Phe Asn Gln Ile Lys Ala Glu Ile Glu Arg Lys Leu Val Glu Lys Asp 1570	1575	1580	4755
gag gag atg gaa cag gcc aag cgc aac cac ctg cgg gtg gtg gac tca Glu Glu Met Glu Gln Ala Lys Arg Asn His Leu Arg Val Val Asp Ser 1585	1590	1595	4803
ctg cag acc tcc ctg gat gca gag acg cgc agc cgc aac gag gcc ctg Leu Gln Thr Ser Leu Asp Ala Glu Thr Arg Ser Arg Asn Glu Ala Leu 1600	1605	1610	4851
cgg gtg aag aag atg gag ggc gac ctc aac gag atg gag atc cag Arg Val Lys Lys Met Glu Gly Asp Leu Asn Glu Met Glu Ile Gln 1615	1620	1625	4899
ctc agc cag gcc aac agg acg gcc tcc gag gcc cag aag cac ctg aag Leu Ser Gln Ala Asn Arg Thr Ala Ser Glu Ala Gln Lys His Leu Lys 1635	1640	1645	4947
aac gcc caa gcc cac ctg aag gac acc cag atc cag ctg gat gac gcg Asn Ala Gln Ala His Leu Lys Asp Thr Gln Ile Gln Leu Asp Asp Ala 1650	1655	1660	4995
gtc cgg gcc aat gac gac ctg aag gag aac atc gcc atc gtg gag cgg Val Arg Ala Asn Asp Asp Leu Lys Glu Asn Ile Ala Ile Val Glu Arg 1665	1670	1675	5043
cgc aac gcg ctg ctg cag gcc gag ctg gag gag ctg cgg gcc gtg gtg Arg Asn Ala Leu Leu Gln Ala Glu Leu Glu Leu Arg Ala Val Val 1680	1685	1690	5091
gag cag acg gag cgg tct cgg aag ctg gca gag cag gag ctg atc gag Glu Gln Thr Glu Arg Ser Arg Lys Leu Ala Glu Gln Glu Leu Ile Glu 1695	1700	1705	5139
acc agc gag cgg gtg cag ctg ctg cac tcc cag aac acc agc ctc atc Thr Ser Glu Arg Val Gln Leu Leu His Ser Gln Asn Thr Ser Leu Ile 1715	1720	1725	5187
aac cag aag aag aag atg gag tcg gac ctg acc cag ctg cag acg gaa Asn Gln Lys Lys Lys Met Glu Ser Asp Leu Thr Gln Leu Gln Thr Glu 1730	1735	1740	5235

gtg gag gag gcg gtg cag gaa tgc agg aac gcc gag gag aag gcc aag	1745	1750	1755	5283
Val Glu Glu Ala Val Gln Glu Cys Arg Asn Ala Glu Glu Lys Ala Lys				
aag gcc atc acg gac gcc gcc atg atg gctg gag aag aag gag	1760	1765	1770	5331
Lys Ala Ile Thr Asp Ala Ala Met Met Ala Glu Glu Leu Lys Lys Glu				
cag gac acc agc gcc cac ctg gag cgc atg aag aag aac atg gag cag	1775	1780	1785	5379
Gln Asp Thr Ser Ala His Leu Glu Arg Met Lys Lys Asn Met Glu Gln				
acc att aag gac ctg cag cac cggtg gag gcc gag cag atc gcc	1795	1800	1805	5427
Thr Ile Lys Asp Leu Gln His Arg Leu Asp Glu Ala Glu Gln Ile Ala				
ctc aag ggc ggc aag aag cag ctg cag aag ctg gag gctg cgg cgg	1810	1815	1820	5475
Leu Lys Gly Gly Lys Lys Gln Leu Gln Lys Leu Glu Ala Arg Val Arg				
gag ctg gag aat gag ctg gag gcc gag cag aac cgc aac gctg gag tcg	1825	1830	1835	5523
Glu Leu Glu Asn Glu Leu Glu Ala Glu Gln Lys Arg Asn Ala Glu Ser				
gtg aag ggc atg agg aag agc gag cgg cgc atc aag gag ctc acc tac	1840	1845	1850	5571
Val Lys Gly Met Arg Lys Ser Glu Arg Arg Ile Lys Glu Leu Thr Tyr				
cag acg gag gag gac aag aag aac ctg ctg cgg ctg cag gac ctg gtg	1855	1860	1865	5619
Gln Thr Glu Glu Asp Lys Lys Asn Leu Leu Arg Leu Gln Asp Leu Val				
gac aag ctg cag ctg aag gtc aag gcc tac aag cgc cag gcc gag gag	1875	1880	1885	5667
Asp Lys Leu Gln Leu Lys Val Lys Ala Tyr Lys Arg Gln Ala Glu Glu				
gcg gag gag cag gcc aac acc aac ctg tcc aag ttc cgc aag gtg cag	1890	1895	1900	5715
Ala Glu Glu Gln Ala Asn Thr Asn Leu Ser Lys Phe Arg Lys Val Gln				
cac gag ctg gac gag gcg gag cgg gca gac atc gctg gag tcc cag	1905	1910	1915	5763
His Glu Leu Asp Glu Ala Glu Glu Arg Ala Asp Ile Ala Glu Ser Gln				
gtc aac aag ctg cgg gcc aag agc cgc gac atc ggc gcc aag caa aaa	1920	1925	1930	5811
Val Asn Lys Leu Arg Ala Lys Ser Arg Asp Ile Gly Ala Lys Gln Lys				
atg cac gac gag gag t gacgcccct ccggaaacccc gctttgtta acccgcaata	1935			5867
Met His Asp Glu Glu				
aacacgagtg cctgaattc				5886
<210> 4				
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<212> PRT

<213> Oryctolagus cuniculus

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Asn Gly Lys Thr Val Thr Val Lys Glu Asp Gln Val Leu Gln Gln Asn
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His Glu Pro Ala Val Leu Tyr Asn Leu Lys Glu Arg Tyr Ala Ala Trp
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Gly Lys Leu Ala Ser Ala Asp Ile Glu Thr Tyr Leu Leu Glu Lys Ser
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Gln Ile Leu Ser Asn Lys Lys Pro Glu Leu Leu Asp Met Leu Leu Ile
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Thr Asn Asn Pro Tyr Asp Tyr Ala Phe Val Ser Gln Gly Glu Val Ser
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Val Ala Ser Ile Asp Asp Ser Glu Glu Leu Met Ala Thr Asp Asn Ala
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Phe Asp Val Leu Gly Phe Ser Ser Glu Glu Lys Val Gly Ile Tyr Lys
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Ser Ala Tyr Leu Met Gly Leu Asn Ser Ala Asp Leu Leu Lys Gly Leu
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Cys His Pro Arg Val Lys Val Gly Asn Glu Tyr Val Thr Lys Gly Gln
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Tyr Glu Lys Met Phe Asn Trp Met Val Met Arg Ile Asn Ala Thr Leu		
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Glu Thr Lys Leu Pro Arg Gln Tyr Phe Ile Gly Val Leu Asp Ile Ala		
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Gly Phe Glu Ile Phe Asp Phe Asn Ser Phe Glu Gln Leu Cys Ile Asn		
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Phe Thr Asn Glu Lys Leu Gln Gln Phe Phe Asn His His Met Phe Val		
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Leu Glu Gln Glu Glu Tyr Lys Glu Gly Ile Glu Trp Glu Phe Ile		
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Asp Phe Gly Met Asp Leu Gln Ala Cys Ile Asp Leu Ile Glu Lys Pro		
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Thr Asp Met Thr Phe Lys Ala Lys Leu Tyr Asp Asn His Leu Gly Lys		
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His Phe Ser Leu Val His Tyr Ala Gly Thr Val Asp Tyr Asn Ile Leu		
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Tyr Ala Ser Ala Asp Thr Ala Asp Thr Gly Lys Gly Lys Gly Lys		
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Lys Lys Gly Ser Ser Phe Gln Thr Val Ser Ala Leu His Arg Glu Asn		
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Arg Gln Arg Tyr Arg Ile Leu Asn Pro Ala Ala Ile Pro Glu Gly Gln		
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Ile Asp His Asn Gln Tyr Lys Phe Gly His Thr Lys Val Phe Phe Lys		
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Ala Tyr Glu Glu Ser Leu Glu His Leu Glu Thr Phe Lys Arg Glu Asn		
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Gly Gly Lys Asn Leu His Glu Leu Glu Lys Val Arg Lys Gln Leu Glu		1520
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Gln Ile Lys Ala Glu Ile Glu Arg Lys Leu Val Glu Lys Asp Glu Glu		
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Thr Ser Leu Asp Ala Glu Thr Arg Ser Arg Asn Glu Ala Leu Arg Val		1600
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Met Asp Asp Ser Gln Met Ala Asp Phe

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Ala Gln Thr Arg Pro Phe Asp Ile Arg Thr Glu Cys Phe Val Pro Asp		
30 35 40		

gac aag gag gac ttc gtc aag gcc aag atc gtg tct cgg gag gga ggc		7095
Asp Lys Glu Glu Phe Val Lys Ala Lys Ile Val Ser Arg Glu Gly Gly		
45 50 55		

aag gtc acc gcc gaa acc gag aac ggc aag acg gtg acc gtg aag gag		7143
Lys Val Thr Ala Glu Thr Glu Asn Gly Lys Thr Val Thr Val Lys Glu		
60 65 70		

gac cag gtg ttg cag cag aac cca ccc aag ttc gac aag atc gag gac Asp Gln Val Leu Gln Gln Asn Pro Pro Lys Phe Asp Lys Ile Glu Asp	75	80	85	7191
atg gcc atg ctg acc ttc cta cac gag ccc gct gta ctc tac aac ctc Met Ala Met Leu Thr Phe Leu His Glu Pro Ala Val Leu Tyr Asn Leu	90	95	100	105
aag gag cgc tac gcg gct tgg atg att tac acc tac tcg ggc ctc ttc Lys Glu Arg Tyr Ala Ala Trp Met Ile Tyr Thr Tyr Ser Gly Leu Phe	110	115	120	7287
tgc gtc acc gtc aac ccc tac aag tgg ctg ccg gtg tac aat gca gag Cys Val Thr Val Asn Pro Tyr Lys Trp Leu Pro Val Tyr Asn Ala Glu	125	130	135	7335
gtg gtg gcc gcc tac cgg ggc aag aag agg agc gag gcc ccg ccc cac Val Val Ala Ala Tyr Arg Gly Lys Lys Arg Ser Glu Ala Pro Pro His	140	145	150	7383
atc ttc tcc atc tct gac aac gcc tat cag tac atg cta aca gat cgg Ile Phe Ser Ile Ser Asp Asn Ala Tyr Gln Tyr Met Leu Thr Asp Arg	155	160	165	7431
gaa aac cag tcc atc ctc atc acc gga gaa tcc ggg gcg ggg aag aca Glu Asn Gln Ser Ile Ile Thr Gly Glu Ser Gly Ala Gly Lys Thr	170	175	180	185
gtg aac acc aag cgt gtc atc cag tac ttt gcc agt att gca gcc att Val Asn Thr Lys Arg Val Ile Gln Tyr Phe Ala Ser Ile Ala Ala Ile	190	195	200	7527
ggt gac cgg ggc aag aag gac aac gtc aat gcc aac aag ggc acc ctg Gly Asp Arg Gly Lys Asp Asn Val Asn Ala Asn Lys Gly Thr Leu	205	210	215	7575
gag gac cag atc atc cag gcc aac cct gcc ttg gag gcc ttc ggc aac Glu Asp Gln Ile Ile Gln Ala Asn Pro Ala Leu Glu Ala Phe Gly Asn	220	225	230	7623
gcc aag acc gtc cgg aac gac aac tcc tcg cgc ttc ggg aaa ttc atc Ala Lys Thr Val Arg Asn Asp Asn Ser Ser Arg Phe Gly Lys Phe Ile	235	240	245	7671
aga atc cac ttt gga gcc act gga aag ctg gct tct gcg gac ata gag Arg Ile His Phe Gly Ala Thr Gly Lys Leu Ala Ser Ala Asp Ile Glu	250	255	260	265
acc tac ctg ctg gag aag tcc cgg gtg atc ttc cag ctg aag gct gag Thr Tyr Leu Leu Glu Lys Ser Arg Val Ile Phe Gln Leu Lys Ala Glu	270	275	280	7767
agg aac tac cac atc ttc tac cag atc ctg tcc aac aag aag ccg gag Arg Asn Tyr His Ile Phe Tyr Gln Ile Leu Ser Asn Lys Lys Pro Glu	285	290	295	7815
ctg ctg gac atg ctg ctg atc aca aac aac ccc tac gac tac gcc ttc				7863

Leu	Leu	Asp	Met	Leu	Leu	Ile	Thr	Asn	Asn	Pro	Tyr	Asp	Tyr	Ala	Phe				
300																310			
gtg	tcc	cag	gga	gag	gtg	tcc	gtg	gcc	tcc	atc	gac	gac	tcc	gag	gag		7911		
Val	Ser	Gln	Gly	Glu	Val	Ser	Val	Ala	Ser	Ile	Asp	Asp	Ser	Glu	Glu				
315																325			
ctc	atg	gcc	acc	gat	aac	gcc	ttc	gac	gtg	ctg	ggc	ttc	agt	tct	gag		7959		
Leu	Met	Ala	Thr	Asp	Asn	Ala	Phe	Asp	Val	Leu	Gly	Phe	Ser	Ser	Glu				
330																340	345		
gag	aaa	gtc	ggc	atc	tac	aag	ctg	acg	ggc	gcc	atc	atg	cac	tac	gga		8007		
Glu	Lys	Val	Gly	Ile	Tyr	Lys	Leu	Thr	Gly	Ala	Ile	Met	His	Tyr	Gly				
																350	355	360	
aac	atg	aag	ttc	aag	cag	aag	cag	cgt	gag	gag	cag	gcg	gag	ccg	gac		8055		
Asn	Met	Lys	Phe	Lys	Gln	Lys	Gln	Arg	Glu	Glu	Gln	Ala	Glu	Pro	Asp				
																365	370	375	
ggc	acc	qaa	gat	gcc	gac	aag	tcc	gcc	tac	ctc	atg	ggg	ctg	aat	tcc		8103		
Gly	Thr	Glu	Asp	Ala	Asp	Lys	Ser	Ala	Tyr	Leu	Met	Gly	Leu	Asn	Ser				
																380	385	390	
gct	gac	ctg	ctc	aag	ggg	ctg	tgc	cac	cct	cgg	gtg	aaa	gtg	ggc	aac		8151		
Ala	Asp	Leu	Leu	Lys	Gly	Leu	Cys	His	Pro	Arg	Val	Lys	Val	Gly	Asn				
																395	400	405	
gag	tac	gtc	acc	aag	ggg	cag	aac	gtg	cag	cag	gtg	tac	tac	tcc	atc		8199		
Glu	Tyr	Val	Thr	Lys	Gly	Gln	Asn	Val	Gln	Gln	Val	Tyr	Tyr	Ser	Ile				
																410	415	420	425
ggg	gcf	ctg	gcc	aag	gcc	gtg	tac	gag	aag	atg	ttc	aat	tgg	atg	gtg		8247		
Gly	Ala	Leu	Ala	Lys	Ala	Val	Tyr	Glu	Lys	Met	Phe	Asn	Trp	Met	Val				
																430	435	440	
atg	cgc	atc	aat	gcc	acg	ctg	gag	acc	aag	ctg	ccg	cgc	cag	tac	ttc		8295		
Met	Arg	Ile	Asn	Ala	Thr	Leu	Glu	Thr	Lys	Leu	Pro	Arg	Gln	Tyr	Phe				
																445	450	455	
ata	ggc	gtc	ctc	gac	atc	gcf	ggc	ttc	gag	atc	ttt	gac	ttc	aat	agc		8343		
Ile	Gly	Val	Leu	Asp	Ile	Ala	Gly	Phe	Glu	Ile	Phe	Asp	Phe	Asn	Ser				
																460	465	470	
ttt	gag	cag	ctt	tgc	atc	aac	ttc	acc	aac	gag	aag	ctg	cag	cag	ttc		8391		
Phe	Glu	Gln	Leu	Cys	Ile	Asn	Phe	Thr	Asn	Glu	Lys	Leu	Gln	Gln	Phe				
																475	480	485	
ttc	aac	cac	cac	atg	ttc	gtg	ctg	gag	cag	gag	gag	tac	aag	aag	gag		8439		
Phe	Asn	His	His	Met	Phe	Val	Leu	Glu	Gln	Glu	Glu	Tyr	Lys	Lys	Glu				
																490	495	500	505
ggc	atc	gag	tgg	gag	ttc	atc	gac	ttc	ggc	atg	gac	ctg	cag	gcc	tgc		8487		
Gly	Ile	Glu	Trp	Glu	Phe	Ile	Asp	Phe	Gly	Met	Asp	Leu	Gln	Ala	Cys				
																510	515	520	
atc	gac	ctc	att	gag	aag	ccc	atg	ggc	atc	atg	tcc	atc	ctg	gag	gag		8535		
Ile	Asp	Leu	Ile	Glu	Lys	Pro	Met	Gly	Ile	Met	Ser	Ile	Leu	Glu	Glu				

525	530	535	
gag tgc atg ttc ccc aag gcc acc gac atg acc ttc aag gcc aag cta Glu Cys Met Phe Pro Lys Ala Thr Asp Met Thr Phe Lys Ala Lys Leu 540	545	550	8583
tac gac aac cac ctg ggc aag tcc aac aac ttc cag aag cca cgc aac Tyr Asp Asn His Leu Gly Lys Ser Asn Asn Phe Gln Lys Pro Arg Asn 555	560	565	8631
gtc aag ggg aag cag gaa gcc cac ttc tcc ctg gtc cac tac gcc ggc Val Lys Gly Lys Gln Glu Ala His Phe Ser Leu Val His Tyr Ala Gly 570	575	580	8679
acc gtg gac tac aac atc ctg ggc tgg ctg gag aag aac aag gac cct Thr Val Asp Tyr Asn Ile Leu Gly Trp Leu Glu Lys Asn Lys Asp Pro 590	595	600	8727
ctc aac gag acg gtg gtc ggc ctg tac cag aag tcc tcc ctc aag ctg Leu Asn Glu Thr Val Val Gly Leu Tyr Gln Lys Ser Ser Leu Lys Leu 605	610	615	8775
atg gcc acc ctc ttc gcc acc tat gct tct gcc gac act gcg gac act Met Ala Thr Leu Phe Ala Thr Tyr Ala Ser Ala Asp Thr Ala Asp Thr 620	625	630	8823
ggc aaa ggc aaa gga ggc aag aaa aag ggc tcg tcc ttc cag aca gtg Gly Lys Gly Lys Gly Lys Lys Lys Gly Ser Ser Phe Gln Thr Val 635	640	645	8871
tca gct ctc cac cgg gaa aat ctg aac aag ctg atg acc aac ctg agg Ser Ala Leu His Arg Glu Asn Leu Asn Lys Leu Met Thr Asn Leu Arg 650	655	660	8919
acc acc cac cct cac ttc gtg cgc tgc atc atc ccc aat gag cgg aag Thr Thr His Pro His Phe Val Arg Cys Ile Ile Pro Asn Glu Arg Lys 670	675	680	8967
gct cca ggg gtg atg gac aac ccc ctg gtc atg cac cag ctg cgt tgc Ala Pro Gly Val Met Asp Asn Pro Leu Val Met His Gln Leu Arg Cys 685	690	695	9015
aac ggc gtg ctg gaa ggc att cgc atc tgc agg aag ggc ttc ccc aac Asn Gly Val Leu Glu Gly Ile Arg Ile Cys Arg Lys Gly Phe Pro Asn 700	705	710	9063
cgc atc ctc tac ggg gac ttc cgg cag agg tac cgc atc ctg aac cca Arg Ile Leu Tyr Gly Asp Phe Arg Gln Arg Tyr Arg Ile Leu Asn Pro 715	720	725	9111
gcg gcc atc cct gag ggc cag ttc att gac agc agg aag ggg gcg gag Ala Ala Ile Pro Glu Gly Gln Phe Ile Asp Ser Arg Lys Gly Ala Glu 730	735	740	9159
aag ctg ctg ggc tcc ctg gac att gac cac aac cag tac aag ttc ggc Lys Leu Leu Gly Ser Leu Asp Ile Asp His Asn Gln Tyr Lys Phe Gly 750	755	760	9207

cac acc aag gtg ttc ttc aag gcc ggg ctg ctg ggg ctg ctg gag gag		9255	
His Thr Lys Val Phe Phe Lys Ala Gly Leu Leu Gly Leu Leu Glu Glu			
765	770	775	
atg cgg gac gag agg ctg agc cgc atc atc acg cgc atc cag gcc cag		9303	
Met Arg Asp Glu Arg Leu Ser Arg Ile Ile Thr Arg Ile Gln Ala Gln			
780	785	790	
tcc cgg ggc cag ctc atg cgt gct gag ttc aag aag atc ctg gag cgc		9351	
Ser Arg Gly Gln Leu Met Arg Ala Glu Phe Lys Lys Ile Leu Glu Arg			
795	800	805	
agg gat gcc ctg ctg gtc atc cag tgg aac atc cgg gcc ttc atg ggg		9399	
Arg Asp Ala Leu Leu Val Ile Gln Trp Asn Ile Arg Ala Phe Met Gly			
810	815	820	825
gtc aag aac tgg ccc tgg atg aag ctc tac ttc aag atc aag cct ctg		9447	
Val Lys Asn Trp Pro Trp Met Lys Leu Tyr Phe Lys Ile Lys Pro Leu			
830	835	840	
ctg aag agc gcg gag acg gag aag gag atg gcc acc atg aag gag gag		9495	
Leu Lys Ser Ala Glu Thr Glu Lys Glu Met Ala Thr Met Lys Glu Glu			
845	850	855	
ttc ggg cgc atc aaa gag tcc ctg gag aag tcg gag gcc cgc cgc aag		9543	
Phe Gly Arg Ile Lys Glu Ser Leu Glu Lys Ser Glu Ala Arg Arg Lys			
860	865	870	
gag ctg gag gag aag atg gtg tcg ctg ctg cag gag aag aat gac ctg		9591	
Glu Leu Glu Glu Lys Met Val Ser Leu Leu Gln Glu Lys Asn Asp Leu			
875	880	885	
cag ctc caa gtg cag gcg gaa caa gac aac ctc aat gat gcc gag gag		9639	
Gln Leu Gln Val Gln Ala Glu Gln Asp Asn Leu Asn Asp Ala Glu Glu			
890	895	900	905
cgc tgc gac cag ctg atc aag aac aag atc cag ctg gag gcc aag gtg		9687	
Arg Cys Asp Gln Leu Ile Lys Asn Lys Ile Gln Leu Glu Ala Lys Val			
910	915	920	
aag gag atg aac gag agg ctg gag gac gag gag gag atg aac gcc gag		9735	
Lys Glu Met Asn Glu Arg Leu Glu Asp Glu Glu Met Asn Ala Glu			
925	930	935	
ctc act gcc aag aag cgc aag ctg gaa gac gag tgc tcc gag ctc aag		9783	
Leu Thr Ala Lys Lys Arg Lys Leu Glu Asp Glu Cys Ser Glu Leu Lys			
940	945	950	
aag gac att gac gac ctg gag ctg acg ctg gcc aag gtg gag aag gag		9831	
Lys Asp Ile Asp Asp Leu Glu Leu Thr Leu Ala Lys Val Glu Lys Glu			
955	960	965	
aag cac gca acc gag aac aag gtg aag aac ctg aca gag gag atg gct		9879	
Lys His Ala Thr Glu Asn Lys Val Lys Asn Leu Thr Glu Glu Met Ala			
970	975	980	985

ggg ctg gac gag atc atc gcc aag ctc acc aag gag aag aaa gct ctg Gly Leu Asp Glu Ile Ile Ala Lys Leu Thr Lys Glu Lys Lys Ala Leu 990 995 1000	9927
caa gag gcc cac cag cag gcc cta gat gac ctt cag gct gag gag gac Gln Glu Ala His Gln Gln Ala Leu Asp Asp Leu Gln Ala Glu Glu Asp 1005 1010 1015	9975
aaa gtc aat act ctg acc aag gcc aag ctc aag ctg gag cag cag gtg Lys Val Asn Thr Leu Thr Lys Ala Lys Leu Glu Gln Gln Val 1020 1025 1030	10023
gac gat ctg gag gga tcc ctg gag cag gag aag aag gtg cgc atg gac Asp Asp Leu Glu Gly Ser Leu Glu Gln Glu Lys Lys Val Arg Met Asp 1035 1040 1045	10071
ctg gag cga gcc aag cgg aag ctg gag ggt gac ctg aag ctg acc cag Leu Glu Arg Ala Lys Arg Lys Leu Glu Gly Asp Leu Lys Leu Thr Gln 1050 1055 1060 1065	10119
gag agc atc atg gac ctg gag aat gac aag ctg cag ctg gag gag agg Glu Ser Ile Met Asp Leu Glu Asn Asp Lys Leu Gln Leu Glu Glu Arg 1070 1075 1080	10167
ctc aag aag gag ttt gac atc agt cag ctg aac agc aag atc gag Leu Lys Lys Glu Phe Asp Ile Ser Gln Leu Asn Ser Lys Ile Glu 1085 1090 1095	10215
gat gag cag gca ctg gcc ctc cag ctg cag aag ctg aag gaa aac Asp Glu Gln Ala Leu Ala Leu Gln Leu Gln Lys Lys Leu Lys Glu Asn 1100 1105 1110	10263
cag gcc cgc atc gag gag ctg gag gag ctg gag gcc gag cgc act Gln Ala Arg Ile Glu Glu Leu Glu Glu Leu Glu Ala Glu Arg Thr 1115 1120 1125	10311
gcc agg gcc aag gtg gag aag ctg cgc tcc gac ctg tcc cgg gag ctg Ala Arg Ala Lys Val Glu Lys Leu Arg Ser Asp Leu Ser Arg Glu Leu 1130 1135 1140 1145	10359
gag gag atc agc gag cgg ctg gag gag gcc ggc ggg gcc acg tcc gtg Glu Glu Ile Ser Glu Arg Leu Glu Ala Gly Gly Ala Thr Ser Val 1150 1155 1160	10407
cag att gag atg aac aag aag cgc gag gcc gag ttc cag aag atg cga Gln Ile Glu Met Asn Lys Lys Arg Glu Ala Glu Phe Gln Lys Met Arg 1165 1170 1175	10455
cgg gac ctg gag gag gcc acg ctg caa cac gag gcc acg gcc gcc Arg Asp Leu Glu Glu Ala Thr Leu Gln His Glu Ala Thr Ala Ala Ala 1180 1185 1190	10503
ctg cgc aag aag cac gcg gac agc gtg gcc gag ctg ggc gag cag atc Leu Arg Lys Lys His Ala Asp Ser Val Ala Glu Leu Gly Glu Gln Ile 1195 1200 1205	10551
gac aac ctg cag cgg gtg aag cag aag ctg gaa aag gag aag agc gag	10599

Asp Asn Leu Gln Arg Val Lys Gln Lys Leu Glu Lys Glu Lys Ser Glu			
1210	1215	1220	1225
ttc aag ctg gag ctg gat gac gtc acc tcc aac atg gag cag atc atc			10647
Phe Lys Leu Glu Leu Asp Asp Val Thr Ser Asn Met Glu Gln Ile Ile			
1230	1235	1240	
aag gcc aag gca aac ctg gag aaa gtg tcc cgc acg ctg gaa gac cag			10695
Lys Ala Lys Ala Asn Leu Glu Lys Val Ser Arg Thr Leu Glu Asp Gln			
1245	1250	1255	
gcc aac gag tac cgc atg aag ctg gag gaa gcc cag cgc tcc ctc aac			10743
Ala Asn Glu Tyr Arg Met Lys Leu Glu Ala Gln Arg Ser Leu Asn			
1260	1265	1270	
gac ttc acc acc cag cga gcc aag ctg caa acc gag aac gga gag cta			10791
Asp Phe Thr Thr Gln Arg Ala Lys Leu Gln Thr Glu Asn Gly Glu Leu			
1275	1280	1285	
gcc cg ^g cag ctg gag gag aag gag gc ^g ctg atc tcc cag ctg acc cg ^g			10839
Ala Arg Gln Leu Glu Lys Glu Ala Leu Ile Ser Gln Leu Thr Arg			
1290	1295	1300	1305
ggc aag ctg tcc tac acc cag cag atg gag gac ctc aag agg cag ctg			10887
Gly Lys Leu Ser Tyr Thr Gln Gln Met Glu Asp Leu Lys Arg Gln Leu			
1310	1315	1320	
gag gag gaa ggc aag gcc aag aac gcc ctg gcc cac gc ^g ctg cag tcg			10935
Glu Glu Glu Gly Lys Ala Lys Asn Ala Leu Ala His Ala Leu Gln Ser			
1325	1330	1335	
gcc cgc cat gac tgt gac ctg ctg cg ^g gag cag tac gag gag gag atg			10983
Ala Arg His Asp Cys Asp Leu Leu Arg Glu Gln Tyr Glu Glu Glu Met			
1340	1345	1350	
gag gcc aag gc ^g gag ctg cag cgc gtc ctg tcc aag gcc aac tcg gag			11031
Glu Ala Lys Ala Glu Leu Gln Arg Val Leu Ser Lys Ala Asn Ser Glu			
1355	1360	1365	
gtg gca cag tgg agg acc aaa tat gag acg gac gcc atc cag cgc acc			11079
Val Ala Gln Trp Arg Thr Lys Tyr Glu Thr Asp Ala Ile Gln Arg Thr			
1370	1375	1380	1385
gag gag ctg gag gag gcc aag aag ctg gcc cag cg ^g ctg cag gag			11127
Glu Glu Leu Glu Ala Lys Lys Leu Ala Gln Arg Leu Gln Asp			
1390	1395	1400	
gcc gag gag gcc gtg gag gcc gtc aac gcc aag tgc tcc tca ctg gag			11175
Ala Glu Glu Ala Val Glu Ala Val Asn Ala Lys Cys Ser Ser Leu Glu			
1405	1410	1415	
aag acc aag cac cg ^g ctg cag aac gag atc gag gac ctc atg gtg gac			11223
Lys Thr Lys His Arg Leu Gln Asn Glu Ile Glu Asp Leu Met Val Asp			
1420	1425	1430	
gtg gag cgc tcc aac gct gcc gcc gcc ctg gac aag aag cag agg			11271
Val Glu Arg Ser Asn Ala Ala Ala Leu Asp Lys Lys Gln Arg			

1435	1440	1445	
aac ttc gac aag atc ctg gcc gag tgg aag cag aag tac gag gag tcg Asn Phe Asp Lys Ile Leu Ala Glu Trp Lys Gln Lys Tyr Glu Glu Ser 1450	1455	1460	11319
cag tcg gag ctg gag tcc tcg cag aag gag gcg cgc tcc ctc agc acc Gln Ser Glu Leu Glu Ser Ser Gln Lys Glu Ala Arg Ser Leu Ser Thr 1470	1475	1480	11367
gag ctc ttc aag ctc aag aac gcc tac gag gag tcc ctg gag cac ctg Glu Leu Phe Lys Leu Lys Asn Ala Tyr Glu Glu Ser Leu Glu His Leu 1485	1490	1495	11415
gag acc ttc aag cgg gag aac aag aac ctg cag gag gag atc tct gac Glu Thr Phe Lys Arg Glu Asn Lys Asn Leu Gln Glu Glu Ile Ser Asp 1500	1505	1510	11463
ctg acg gag cag ctg gga gaa gga ggc aag aat ctg cac gag ctg gag Leu Thr Glu Gln Leu Gly Glu Gly Lys Asn Leu His Glu Leu Glu 1515	1520	1525	11511
aag gtc cgc aag cag ctg gag gcc gag aag ctg gag ctg cag tcg gcc Lys Val Arg Lys Gln Leu Glu Ala Glu Lys Leu Glu Leu Gln Ser Ala 1530	1535	1540	11559
ctg gag gag gcc gag gcc tcc ctg gag cac gag gaa ggc aag atc ctc Leu Glu Glu Ala Glu Ala Ser Leu Glu His Glu Glu Gly Lys Ile Leu 1550	1555	1560	11607
cgg gcc cag ctg gag ttc aac cag atc aag gcg gag atc gag cgg aag Arg Ala Gln Leu Glu Phe Asn Gln Ile Lys Ala Glu Ile Glu Arg Lys 1565	1570	1575	11655
ctg gtg gag aag gac gag gag atg gaa cag gcc aag cgc aac cac ctg Leu Val Glu Lys Asp Glu Glu Met Glu Gln Ala Lys Arg Asn His Leu 1580	1585	1590	11703
cgg gtg gac tca ctg cag acc tcc ctg gat gca gag acg cgc agc Arg Val Val Asp Ser Leu Gln Thr Ser Leu Asp Ala Glu Thr Arg Ser 1595	1600	1605	11751
cgc aac gag gcc ctg cgg gtg aag aag aag atg gag ggc gac ctc aac Arg Asn Glu Ala Leu Arg Val Lys Lys Met Glu Gly Asp Leu Asn 1610	1615	1620	11799
gag atg gag atc cag ctc agc cag gcc aac agg acg gcc tcc gag gcc Glu Met Glu Ile Gln Leu Ser Gln Ala Asn Arg Thr Ala Ser Glu Ala 1630	1635	1640	11847
cag aag cac ctg aag aac gcc caa gcc cac ctg aag gac acc cag atc Gln Lys His Leu Lys Asn Ala Gln Ala His Leu Lys Asp Thr Gln Ile 1645	1650	1655	11895
cag ctg gat gac gcg gtc cgg gcc aat gac gac ctg aag gag aac atc Gln Leu Asp Asp Ala Val Arg Ala Asn Asp Asp Leu Lys Glu Asn Ile 1660	1665	1670	11943

ttc cgc aag gtg cag cac gag ctg gac gag gcg gag gag cggttcc gca gac 12663
Phe Arg Lys Val Gln His Glu Leu Asp Glu Ala Glu Arg Ala Asp
1900 1905 1910

atc gcg gag tcc cag gtc aac aag ctg cggttcc gcc aag agc cgc gac atc 12711
Ile Ala Glu Ser Gln Val Asn Lys Leu Arg Ala Lys Ser Arg Asp Ile
1915 1920 1925

ggc gcc aag caa aaa atg cac gac gag gag tga cgccgcctcc ggaacccgc 12764
Gly Ala Lys Gln Lys Met His Asp Glu Glu *
1930 1935

tcttgttaac ccgcaataaa cacgagtgcc tgaattc 12801